We claim:

1. Surface-modified zinc oxides, characterized in that they have the following physico-chemical characteristic data:

BET surface areas: $18 \pm 5 \text{ m}^2/\text{g}$

C content: 0.5 to 1.0 wt.%

- 2. Surface-modified zinc oxide according to Claim 1, which has been surface modified with a member selected from the group consisting of:
 - a) Organosilanes of the type $(RO)_3Si(C_nH_{2n+1})$ and $RO)_3Si(C_nH_{2n-1})$ R = alkyl, such as, for example, methyl-, ethyl-, n-propyl-, i-propyl-, butyl- n = 1 20
 - b) Organosilanes of the type $R'_x(RO)_ySi(C_nH_{2n+1})$ and $R'x(RO)ySi(C_nH_{2n-1})$ R = alkyl, such as, for example, methyl-, ethyl-, n-propyl-, i-propyl-, butyl-R' = alkyl, such as, for example, methyl-, ethyl-, n-propyl-, i-propyl-, butyl-R' = cycloalkyl n = 1 20 x+y = 3 x = 1,2 y = 1,2
 - c) Halogeno-organosilanes of the type $X_3Si(C_nH_{2n+1})$ and $X_3Si(C_nH_{2n-1})$ X = Cl, Br n = 1 20
 - d) Halogeno-organosilanes of the type $X_2(R')Si(C_nH_{2n+1})$ and $X_2(R')Si(C_nH_{2n-1})$ X = Cl, Br R' = alkyl, such as, for example, methyl-, ethyl-, n-propyl-, i-propyl-, butyl- R' = cycloalkyl n = 1 20

```
X(R')_{2}Si(C_{n}H_{2n+1}) and X(R')_{2}Si(C_{n}H_{2n-1})
            X = Cl, Br
            R' = alkyl, such as, for example, methyl-,
                  ethyl-, n-propyl-, i-propyl-, butyl-
            R'=cycloalkyl
            n = 1 - 20
f) Organosilanes of the type (RO)_3Si(CH_2)_m-R'
        R = alkyl, such as methyl-, ethyl-, propyl-
        m = 0, 1 - 20
        R' = methyl-, aryl (for example -C<sub>6</sub>H<sub>5</sub>,
               substituted phenyl radicals)
              -C_4F_9, OCF_2-CHF-CF_3, -C_6F_{13}, -O-CF_2-CHF_2
             -NH_2, -N_3, -SCN, -CH=CH_2, -NH-CH_2-CH_2-NH_2,
             -N-(CH_2-CH_2-NH_2)_2
             -OOC(CH_3)C = CH_2
             -OCH_2-CH(O)CH_2
             -NH-CO-N-CO-(CH<sub>2</sub>)<sub>5</sub>
             -NH-COO-CH<sub>3</sub>, -NH-COO-CH<sub>2</sub>-CH<sub>3</sub>, -NH-
               (CH<sub>2</sub>)<sub>3</sub>Si(OR)<sub>3</sub>
             -S_{x}-(CH_{2})_{3}Si(OR)_{3}
              -NR'R''R''' (R' = alkyl, aryl; R'' = H,
               alkyl, aryl; R''' = H, alkyl, aryl, benzyl,
               C_2H_4NR'''' R''''' where R'''' = H, alkyl and
               R''''' = H, alkyl)
g) Organosilanes of the type (R")_x(RO)_ySi(CH_2)_m-R'
 R'' = alkyl
                      x+y = 2
     = cycloalkyl x = 1,2
      = 1, 2
 У
       = 0,1 to 20
 R' = methyl-, aryl (for example -C_6H_5, substituted
       phenyl radicals)
       -C_4F_9, -OCF_2-CHF-CF<sub>3</sub>, -C_6F_{13}, -O-CF_2-CHF<sub>2</sub>
       -NH_2, -N_3, -SCN, -CH=CH_2, -NH-CH_2-CH_2-NH_2,
       -N-(CH_2-CH_2-NH_2)_2
       -OOC(CH_3)C = CH_2
       -OCH_2-CH(O)CH_2
       -NH-CO-N-CO-(CH<sub>2</sub>)<sub>5</sub>
       -NH-COO-CH_3, -NH-COO-CH_2-CH_3, -NH-
                    (CH<sub>2</sub>)<sub>3</sub>Si(OR)<sub>3</sub>
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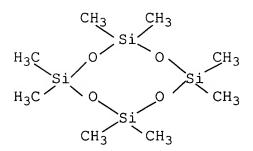
e) Halogeno-organosilanes of the type

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-S_{x}-(CH<sub>2</sub>)<sub>3</sub>Si(OR)<sub>3</sub>
                     -SH
                      - NR'R''R''' (R' = alkyl, aryl; R'' = H,
                         alkyl, aryl; R''' = H, alkyl, aryl,
                     benzyl,
                      C_2H_4NR'''' R''''' where R'''' = H, alkyl
                       and R''''
                                                          = H, alkyl)
h) Halogeno-organosilanes of the type X_3Si(CH_2)_m- R'
 X = Cl, Br
 m = 0, 1 - 20
 R' = methyl-, aryl (for example -C_6H_5, substituted
        phenyl radicals)
        -C_4F_9, -OCF_2-CHF-CF_3, -C_6F_{13}, -O-CF_2-CHF_2
        -NH_2, -N_3, -SCN, -CH=CH_2,
        -NH-CH<sub>2</sub>-CH<sub>2</sub>-NH<sub>2</sub>
        -N-(CH_2-CH_2-NH_2)_2
        -OOC(CH_3)C = CH_2
        -OCH<sub>2</sub>-CH(O)CH<sub>2</sub>
        -NH-CO-N-CO-(CH<sub>2</sub>)<sub>5</sub>
        -NH-COO-CH<sub>3</sub>, -NH-COO-CH<sub>2</sub>-CH<sub>3</sub>, -NH-(CH<sub>2</sub>)<sub>3</sub>Si(OR)<sub>3</sub>
        -S_{x}-(CH_{2})_{3}Si(OR)_{3}
       -SH
i) Halogeno-organosilanes of the type (R)X_2Si(CH_2)_m-R'
 X = C1, Br
 R = alkyl, such as methyl, - ethyl-, propyl-
 m = 0, 1 - 20
 R' = methyl-, aryl (e.g. -C_6H_5, substituted
        phenyl radicals)
        -C_4F_9, -OCF_2-CHF-CF<sub>3</sub>, -C_6F_{13}, -O-CF_2-CHF<sub>2</sub>
        -NH_2, -N_3, -SCN, -CH=CH_2, -NH-CH_2-CH_2-NH_2,
        -N-(CH_2-CH_2-NH_2)_2
        -OOC(CH_3)C = CH_2
        -OCH<sub>2</sub>-CH(O)CH<sub>2</sub>
        -NH-CO-N-CO-(CH<sub>2</sub>)<sub>5</sub>
        -NH-COO-CH<sub>3</sub>, -NH-COO-CH<sub>2</sub>-CH<sub>3</sub>, -NH-(CH<sub>2</sub>)<sub>3</sub>Si(OR)<sub>3</sub>,
          wherein R can be methyl-, ethyl-, propyl-,
butyl-
         -S_x-(CH_2)_3Si(OR)_3, wherein R can be methyl-,
          ethyl-, propyl-, butyl-
        -SH
```

j) Halogeno-organosilanes of the type $(R)_2X \, Si(CH_2)_m - R'$ X = Cl, Br R = alkyl m = 0,1 - 20 $R' = methyl-, aryl (e.g. <math>-C_6H_5$, substituted phenyl radicals) $-C_4F_9$, $-OCF_2-CHF-CF_3$, $-C_6F_{13}$, $-O-CF_2-CHF_2$ $-NH_2$, $-N_3$, -SCN, $-CH=CH_2$, $-NH-CH_2-CH_2-NH_2$ $-N-(CH_2-CH_2-NH_2)_2$ $-OOC(CH_3)C = CH_2$ $-OCH_2-CH(O)CH_2$ $-NH-CO-N-CO-(CH_2)_5$ $-NH-COO-CH_3$, $-NH-COO-CH_2-CH_3$, $-NH-(CH_2)_3Si(OR)_3$ $-S_x-(CH_2)_3Si(OR)_3$

k) Silazanes of the type $R'R_2Si-N-SiR_2R'$ | H

1) Cyclic polysiloxanes of the type D 3, D 4, D 5,
 wherein D 3, D 4 and D 5 are understood as cyclic
 polysiloxanes with 3, 4 or 5 units of the type -O Si(CH₃)₂-.E.g. octamethylcyclotetrasiloxane = D 4



m) Polysiloxanes or silicone oils of the type

$$m = 0, 1, 2, 3, ... \infty$$

 $n = 0, 1, 2, 3, ... \infty$
 $u = 0, 1, 2, 3, ... \infty$

 $Si(CH_3)_2OH$, $Si(CH_3)_2(OCH_3)$,

$$Si(CH_3)_2(C_nH_{2n+1})$$
 n=1-20

- = alkyl, such as C_nH_{2n+1} , wherein n = 1 to 20, aryl, R such as phenyl und substituted phenyl radicals, (CH₂)_n-NH₂, H
- R' = alkyl, such as C_nH_{2n+1} , wherein n = 1 to 20, aryl, such as phenyl- and substituted phenyl radicals, (CH₂)_n-NH₂, H
- R'' = alkyl, such as C_nH_{2n+1} , wherein n = 1 to 20, aryl, such as phenyl- and substituted phenyl radicals, $(CH_2)_n$ -NH₂, H
- R''' = alkyl, such as C_nH_{2n+1} , wherein n = 1 to 20, aryl, such as phenyl und substituted phenyl radicals, (CH₂)_n-NH₂, H
- A process for the preparation of the surface-modified zinc oxide according to claim 1, comprising optionally spraying a zinc oxide with water, spraying a surface-modifying agent at room temperature to obtain a zinc oxide sprayed with said surface-modifying agent, heat treating said zinc oxide at a temperature of 50 to 400°C over a period of 1 to 6 hours to thereby obtain a surface-modified zinc oxide.
- 4. The process according to Claim 3, wherein the surfacemodifying agent is a member selected from the group consisting of:

```
a) Organosilanes of the type (RO)_3Si(C_nH_{2n+1}) and RO)_3Si(C_nH_{2n-1})
R = alkyl, such as, for example, methyl-, ethyl-, n-propyl-, i-propyl-, butyl-
n = 1 - 20
b) Organosilanes of the type R'_x(RO)_ySi(C_nH_{2n+1}) and R'_x(RO)_ySi(C_nH_{2n-1})
R = alkyl, such as, for example, methyl-, ethyl-,
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B) Organositanes of the type $R'_x(RO)_yS1(C_nH_{2n+1})$ and $R'x(RO)ySi(C_nH_{2n-1})$ R = alkyl, such as, for example, methyl-, ethyl-, n-propyl-, i-propyl-, butyl-R' = alkyl, such as, for example, methyl-, ethyl-, n-propyl-, i-propyl-, butyl-R' = cycloalkyl n = 1 - 20 x+y = 3 x = 1,2 y = 1,2

- c) Halogeno-organosilanes of the type $X_3Si(C_nH_{2n+1})$ and $X_3Si(C_nH_{2n-1})$ X = Cl, Br n = 1 20
- d) Halogeno-organosilanes of the type $X_2(R')Si(C_nH_{2n+1})$ and $X_2(R')Si(C_nH_{2n-1})$ X = Cl, Br R' = alkyl, such as, for example, methyl-, ethyl-, n-propyl-, i-propyl-, butyl- R' = cycloalkyl n = 1 20
- e) Halogeno-organosilanes of the type

$$X(R')_2Si(C_nH_{2n+1})$$
 and $X(R')_2Si(C_nH_{2n-1})$
 $X = Cl$, Br
 $R' = alkyl$, such as, for example, methyl-,
ethyl-, n-propyl-, i-propyl-, butyl-
 $R' = cycloalkyl$
 $n = 1 - 20$

f) Organosilanes of the type $(RO)_3Si(CH_2)_m-R'$ R = alkyl, such as methyl-, ethyl-, propyl-m = 0,1-20 R' = methyl-, aryl (for example $-C_6H_5$)

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substituted phenyl radicals)
              -C_4F_9, OCF_2-CHF-CF_3, -C_6F_{13}, -O-CF_2-CHF_2
              -NH_2, -N_3, -SCN, -CH=CH_2, -NH-CH_2-CH_2-NH_2,
              -N-(CH_2-CH_2-NH_2)_2
              -OOC(CH_3)C = CH_2
              -OCH_2-CH(O)CH_2
              -NH-CO-N-CO-(CH<sub>2</sub>)<sub>5</sub>
              -NH-COO-CH_3, -NH-COO-CH_2-CH_3, -NH-
                (CH<sub>2</sub>)<sub>3</sub>Si(OR)<sub>3</sub>
              -S_{x}-(CH_{2})_{3}Si(OR)_{3}
              -NR'R''R''' (R' = alkyl, aryl; R'' = H,
               alkyl, aryl; R''' = H, alkyl, aryl, benzyl,
               C_2H_4NR'''' R'''' where R'''' = H, alkyl and
               R''''' = H, alkyl)
g) Organosilanes of the type (R")<sub>x</sub>(RO)<sub>y</sub>Si(CH<sub>2</sub>)<sub>m</sub>-R'
 R'' = alkyl
                        x+y = 2
     = cycloalkyl x = 1,2
      = 1, 2
 У
      = 0,1 to 20
 R' = methyl-, aryl (for example -C_6H_5, substituted
        phenyl radicals)
        -C_4F_9, -OCF_2-CHF-CF<sub>3</sub>, -C_6F_{13}, -O-CF_2-CHF<sub>2</sub>
        -NH_2, -N_3, -SCN, -CH=CH_2, -NH-CH_2-CH_2-NH_2,
        -N-(CH_2-CH_2-NH_2)_2
        -OOC(CH_3)C = CH_2
        -OCH_2-CH(O)CH_2
        -NH-CO-N-CO-(CH<sub>2</sub>)<sub>5</sub>
        -NH-COO-CH<sub>3</sub>, -NH-COO-CH<sub>2</sub>-CH<sub>3</sub>, -NH-
                     (CH<sub>2</sub>)<sub>3</sub>Si(OR)<sub>3</sub>
                    -S_{x}-(CH_{2})_{3}Si(OR)_{3}
                     - NR'R''R''' (R' = alkyl, aryl; R'' = H,
                        alkyl, aryl; R''' = H, alkyl, aryl,
                    benzyl,
                      C_2H_4NR'''' R''''' where R'''' = H, alkyl
                           R''''
                      and
                                                        = H, alkyl)
h) Halogeno-organosilanes of the type X<sub>3</sub>Si(CH<sub>2</sub>)<sub>m</sub>- R'
 X = C1, Br
 m = 0, 1 - 20
 R' = methyl-, aryl (for example -C_6H_5, substituted
        phenyl radicals)
        -C_4F_9, -OCF_2-CHF-CF<sub>3</sub>, -C_6F_{13}, -O-CF_2-CHF<sub>2</sub>
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-NH_2, -N_3, -SCN, -CH=CH_2,
        -NH-CH<sub>2</sub>-CH<sub>2</sub>-NH<sub>2</sub>
        -N-(CH_2-CH_2-NH_2)_2
        -OOC(CH_3)C = CH_2
        -OCH_2-CH(O)CH_2
        -NH-CO-N-CO-(CH<sub>2</sub>)<sub>5</sub>
        -NH-COO-CH_3, -NH-COO-CH_2-CH_3, -NH-(CH_2)_3Si(OR)_3
        -S_{x}-(CH_{2})_{3}Si(OR)_{3}
       -SH
i) Halogeno-organosilanes of the type (R)X_2Si(CH_2)_m-R'
 X = C1, Br
 R = alkyl, such as methyl, - ethyl-, propyl-
 m = 0, 1 - 20
 R' = methyl-, aryl (e.g. -C_6H_5, substituted
        phenyl radicals)
        -C_4F_9, -OCF_2-CHF-CF<sub>3</sub>, -C_6F_{13}, -O-CF_2-CHF<sub>2</sub>
        -NH_2, -N_3, -SCN, -CH=CH_2, -NH-CH_2-CH_2-NH_2,
        -N-(CH_2-CH_2-NH_2)_2
        -OOC(CH_3)C = CH_2
        -OCH<sub>2</sub>-CH(O)CH<sub>2</sub>
        -NH-CO-N-CO-(CH<sub>2</sub>)<sub>5</sub>
        -NH-COO-CH_3, -NH-COO-CH_2-CH_3, -NH-(CH_2)_3Si(OR)_3,
         wherein R can be methyl-, ethyl-, propyl-,
butyl-
        -S_x-(CH_2)_3Si(OR)_3, wherein R can be methyl-,
          ethyl-, propyl-, butyl-
        -SH
j) Halogeno-organosilanes of the type (R)<sub>2</sub>X Si(CH<sub>2</sub>)<sub>m</sub>-R'
               X = Cl, Br
               R = alkyl
               m = 0, 1 - 20
               R' = methyl-, aryl (e.g. -C_6H_5, substituted)
                      phenyl radicals)
               -C_4F_9, -OCF_2-CHF-CF<sub>3</sub>, -C_6F_{13}, -O-CF_2-CHF<sub>2</sub>
               -NH_2, -N_3, -SCN, -CH=CH_2, -NH-CH_2-CH_2-NH_2
               -N-(CH_2-CH_2-NH_2)_2
               -OOC(CH_3)C = CH_2
               -OCH<sub>2</sub>-CH(O)CH<sub>2</sub>
               -NH-CO-N-CO-(CH<sub>2</sub>)<sub>5</sub>
               -NH-COO-CH<sub>3</sub>, -NH-COO-CH<sub>2</sub>-CH<sub>3</sub>, -NH-
                      (CH<sub>2</sub>)<sub>3</sub>Si(OR)<sub>3</sub>
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$$-S_x-(CH_2)_3Si(OR)_3$$

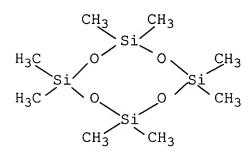
-SH

k) Silazanes of the type $R'R_2Si-N-SiR_2R'$

R = alkyl, vinyl, arylR' = alkyl, vinyl, aryl

1) Cyclic polysiloxanes of the type D 3, D 4, D 5, wherein D 3, D 4 and D 5 are understood as cyclic polysiloxanes with 3, 4 or 5 units of the type -O- $Si(CH_3)_2$ -.E.g. octamethylcyclotetrasiloxane = D 4

Η



m) Polysiloxanes or silicone oils of the type

 $Si(CH_3)_2OH$, $Si(CH_3)_2(OCH_3)$,

 $Si(CH_3)_2(C_nH_{2n+1})$ n=1-20

- = alkyl, such as C_nH_{2n+1} , wherein n = 1 to 20, aryl, such as phenyl und substituted phenyl radicals, $(CH_2)_n - NH_2$, H
- = alkyl, such as C_nH_{2n+1} , wherein n = 1 to 20, aryl, R' such as phenyl- and substituted phenyl radicals, (CH₂)_n-NH₂, H
- R'' = alkyl, such as C_nH_{2n+1} , wherein n = 1 to 20, aryl, such as phenyl- and substituted phenyl radicals,

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(CH_2)_n-NH<sub>2</sub>, H
R''' = alkyl, such as C_nH_{2n+1}, wherein n = 1 to 20, aryl, such as phenyl und substituted phenyl radicals, (CH_2)_n-NH<sub>2</sub>, H
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- 5. A process for the preparation of the surface-modified zinc oxides according to Claim 1, comprising optionally spraying zinc oxide with water, treating said zinc oxide with a surface-modifying agent in vapour form and then heat-treating the resulting zinc oxide at a temperature of 50 to 800°C over a period of 0.5 to 6 hours to thereby obtain a surface-modified zinc oxide.
- 6. The process according to Claim 5, wherein the surface-modifying agent is a member selected from the group consisting of:
 - a) Organosilanes of the type $(RO)_3Si(C_nH_{2n+1})$ and $RO)_3Si(C_nH_{2n-1})$ R = alkyl, such as, for example, methyl-, ethyl-, n-propyl-, i-propyl-, butyl- n = 1 20
 - b) Organosilanes of the type $R'_x(RO)_ySi(C_nH_{2n+1})$ and $R'x(RO)_ySi(C_nH_{2n-1})$ R = alkyl, such as, for example, methyl-, ethyl-, n-propyl-, i-propyl-, butyl-R' = alkyl, such as, for example, methyl-, ethyl-, n-propyl-, i-propyl-, butyl-R'=cycloalkyl n = 1 20 x+y = 3 x = 1,2 y = 1,2
 - c) Halogeno-organosilanes of the type $X_3Si(C_nH_{2n+1})$ and $X_3Si(C_nH_{2n-1})$ X = Cl, Br n = 1 20

```
d)
    Halogeno-organosilanes of the type X_2(R')Si(C_nH_{2n+1})
     and X_2(R')Si(C_nH_{2n-1})
    X = C1, Br
     R' = alkyl, such as, for example, methyl-, ethyl-,
     n-propyl-, i-propyl-, butyl-
     R'=cycloalkyl
     n = 1 - 20
e) Halogeno-organosilanes of the type
           X(R')_{2}Si(C_{n}H_{2n+1}) and X(R')_{2}Si(C_{n}H_{2n-1})
           X = C1, Br
           R' = alkyl, such as, for example, methyl-,
                 ethyl-, n-propyl-, i-propyl-, butyl-
           R'=cycloalkyl
           n = 1 - 20
f) Organosilanes of the type (RO)<sub>3</sub>Si(CH<sub>2</sub>)<sub>m</sub>-R'
        R = alkyl, such as methyl-, ethyl-, propyl-
        m = 0, 1 - 20
        R' = methyl-, aryl (for example -C_6H_5,
              substituted phenyl radicals)
            -C_4F_9, OCF_2-CHF-CF_3, -C_6F_{13}, -O-CF_2-CHF_2
            -NH_2, -N_3, -SCN, -CH=CH_2, -NH-CH_2-CH_2-NH_2,
            -N-(CH_2-CH_2-NH_2)_2
            -OOC(CH_3)C = CH_2
            -OCH<sub>2</sub>-CH(O)CH<sub>2</sub>
            -NH-CO-N-CO-(CH<sub>2</sub>)<sub>5</sub>
            -NH-COO-CH_3, -NH-COO-CH_2-CH_3, -NH-
              (CH<sub>2</sub>)<sub>3</sub>Si(OR)<sub>3</sub>
            -S_x-(CH_2)_3Si(OR)_3
            -NR'R''R''' (R' = alkyl, aryl; R'' = H,
              alkyl, aryl; R''' = H, alkyl, aryl, benzyl,
              C_2H_4NR'''' R''''' where R'''' = H, alkyl and
              R''''' = H, alkyl)
g)
    Organosilanes of the type (R'')_x(RO)_ySi(CH_2)_m-R'
                         x+y = 2
       R'' = alkvl
          = cycloalkyl x = 1,2
       У
           = 1, 2
           = 0,1 to 20
       R' = methyl-, aryl (for example -C_6H_5, substituted
             phenyl radicals)
             -C_4F_9, -OCF_2-CHF-CF_3, -C_6F_{13}, -O-CF_2-CHF_2
             -NH_2, -N_3, -SCN, -CH=CH_2, -NH-CH_2-CH_2-NH_2,
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-N-(CH_2-CH_2-NH_2)_2
               -OOC(CH_3)C = CH_2
               -OCH_2-CH(O)CH_2
               -NH-CO-N-CO-(CH<sub>2</sub>)<sub>5</sub>
               -NH-COO-CH_3, -NH-COO-CH_2-CH_3, -NH-
                     (CH<sub>2</sub>)<sub>3</sub>Si(OR)<sub>3</sub>
                    -S_{x}-(CH_{2})_{3}Si(OR)_{3}
                     - NR'R''R''' (R' = alkyl, aryl; R'' = H,
                        alkyl, aryl; R''' = H, alkyl, aryl,
                    benzyl,
                      C_2H_4NR'''' R''''' where R'''' = H, alkyl
                            RIIIII
                                                        = H, alkyl)
h) Halogeno-organosilanes of the type X_3Si(CH_2)_m- R'
        X = Cl, Br
        m = 0, 1 - 20
        R' = methyl-, aryl (for example -C_6H_5, substituted
               phenyl radicals)
               -C_4F_9, -OCF_2-CHF-CF<sub>3</sub>, -C_6F_{13}, -O-CF_2-CHF<sub>2</sub>
               -NH_2, -N_3, -SCN, -CH=CH_2,
               -NH-CH<sub>2</sub>-CH<sub>2</sub>-NH<sub>2</sub>
               -N-(CH_2-CH_2-NH_2)_2
               -OOC(CH_3)C = CH_2
               -OCH_2-CH(O)CH_2
               -NH-CO-N-CO-(CH<sub>2</sub>)<sub>5</sub>
              -NH-COO-CH<sub>3</sub>, -NH-COO-CH<sub>2</sub>-CH<sub>3</sub>, -NH-
               (CH<sub>2</sub>)<sub>3</sub>Si(OR)<sub>3</sub>
              -S_x-(CH_2)_3Si(OR)_3
i) Halogeno-organosilanes of the type (R)X2Si(CH2)m-R'
    X = Cl, Br
    R = alkyl, such as methyl, - ethyl-, propyl-
    m = 0, 1 - 20
    R' = methyl-, aryl (e.g. -C_6H_5, substituted
           phenyl radicals)
           -C_4F_9, -OCF_2-CHF-CF_3, -C_6F_{13}, -O-CF_2-CHF_2
           -NH_2, -N_3, -SCN, -CH=CH_2, -NH-CH_2-CH_2-NH_2,
           -N-(CH_2-CH_2-NH_2)_2
           -OOC(CH_3)C = CH_2
           -OCH<sub>2</sub>-CH(O)CH<sub>2</sub>
           -NH-CO-N-CO-(CH<sub>2</sub>)<sub>5</sub>
           -NH-COO-CH_3, -NH-COO-CH_2-CH_3, -NH-(CH_2)_3Si(OR)_3,
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wherein R can be methyl-, ethyl-, propyl-, butyl- $-S_x-(CH_2)_3Si(OR)_3, \text{ wherein R can be methyl-,} \\ \text{ ethyl-, propyl-, butyl-} \\ -SH$

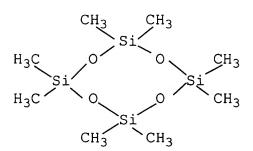
j) Halogeno-organosilanes of the type $(R)_2X$ Si $(CH_2)_m$ -R'

X = Cl, Br
R = alkyl
m = 0,1 - 20
R' = methyl-, aryl (e.g. -C₆H₅, substituted phenyl radicals)
-C₄F₉, -OCF₂-CHF-CF₃, -C₆F₁₃, -O-CF₂-CHF₂
-NH₂, -N₃, -SCN, -CH=CH₂, -NH-CH₂-CH₂-NH₂
-N-(CH₂-CH₂-NH₂)₂
-OOC(CH₃)C = CH₂
-OCH₂-CH(O)CH₂
-NH-CO-N-CO-(CH₂)₅
-NH-COO-CH₃, -NH-COO-CH₂-CH₃, -NH-(CH₂)₃Si(OR)₃
-SH

k) Silazanes of the type $R'R_2Si-N-SiR_2R'$ H

R = alkyl, vinyl, aryl
R' = alkyl, vinyl, aryl

1) Cyclic polysiloxanes of the type D 3, D 4, D 5, wherein D 3, D 4 and D 5 are understood as cyclic polysiloxanes with 3, 4 or 5 units of the type -0-Si(CH₃)₂-.E.g. octamethylcyclotetrasiloxane = D 4



m) Polysiloxanes or silicone oils of the type

$$m = 0, 1, 2, 3, ... \infty$$

 $n = 0, 1, 2, 3, ... \infty$
 $n = 0, 1, 2, 3, ... \infty$

 $Si(CH_3)_2OH$, $Si(CH_3)_2(OCH_3)$,

$$Si(CH_3)_2(C_nH_{2n+1})$$
 n=1-20

- = alkyl, such as C_nH_{2n+1} , wherein n = 1 to 20, aryl, such as phenyl und substituted phenyl radicals, $(CH_2)_n - NH_2$, H
- R' = alkyl, such as C_nH_{2n+1} , wherein n = 1 to 20, aryl, such as phenyl- and substituted phenyl radicals, $(CH_2)_n$ -NH₂, H
- R'' = alkyl, such as C_nH_{2n+1} , wherein n = 1 to 20, aryl, such as phenyl- and substituted phenyl radicals, $(CH_2)_n - NH_2$, H
- R''' = alkyl, such as C_nH_{2n+1} , wherein n = 1 to 20, aryl, such as phenyl und substituted phenyl radicals, $(CH_2)_n - NH_2$, H
- 7. A cosmetic preparation comprising a dermatologically acceptable carrier and the surface-modified zinc oxide of Claim 1.
- A cosmetic preparation comprising a dermatologically acceptable carrier and the surface-modified zinc oxide of Claim 2.

- 9. A sunscreen preparation comprising a dermatologically acceptable carrier and the surface modified zinc oxide of Claim 1.
- 10. A sunscreen preparation comprising a dermatologically acceptable carrier and the surface modified zinc oxide of Claim 2.
- 11. The sunscreen preparation according to Claim 9, wherein the dermatologically acceptable carrier is a member selected from the group consisting of octocrylene, ethylhexyl methoxycinnamate, phenylbenzimidazole sulfoinc acid, and bisethylhexyloxy methoxyphenyl triazine.